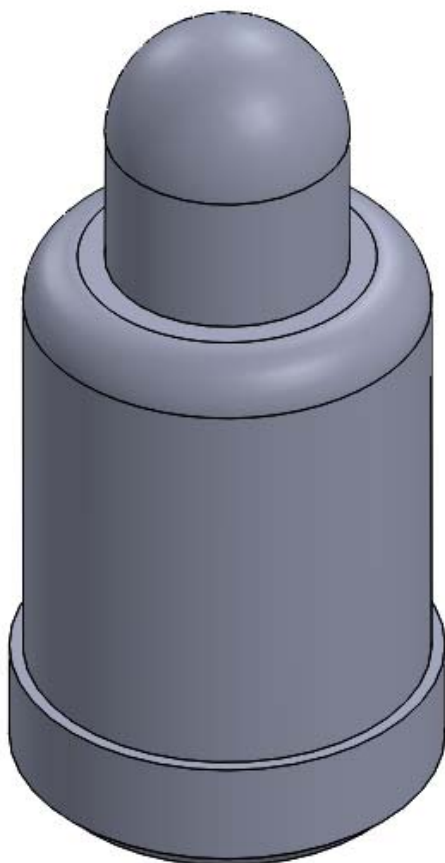




PRODUCT SPECIFICATION



育鼎精密工業股份有限公司
ACRON PRECISION INDUSTRIAL CO., LTD

桃園縣八德市廣德里新興路 55 號

No.55, SinSing Road., Bade City, Taoyuan County 334, Taiwan(R.O.C)

TEL : 886-3-3629889 FAX : 886-3-3664917

□東莞睦永電子有限公司
(AMMI)

■東莞育鼎電子有限公司
(ACRON)

□東莞愷興電子科技電子有限公司
(NUCONN)

REVISION:	ECR/ECN INFORMATION:		PRODUCT NO	BTC31 SERIES	SHEET No
A	EC No:	PDR-A150028	PRODUCT NAME	1 Pin Pogo Pin H=3.25mm	1 of 5
	DATE:	2015/06/30			
DOCUMENT NUMBER:		CREATED / REVISED BY:		CHECKED BY:	APPROVED BY:
PS-BC-0106		TOM		JERRY.TUNG	KIMI.HSU



PRODUCT SPECIFICATION

1.0 SCOPE

This specification defines the related performance of the 1 Pin Pogo Pin.

2.0 PRODUCT DESCRIPTION

This Pogo Pin consists of one contact pin, one spring, one solder pads for materials, plating see below Product Name: **BTC31 SERIES**

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

See product drawing (according to the newest revised edition) and other sections of this specification for the relevant reference documents and specifications. In cases where the specification differs from the product drawings, the product drawings take precedence.

4.0 RATINGS

4.1	Rated Current (per contact)	1 Amp Max.
4.2	Rated Voltage	12 V DC RMS .
4.3	Operating temperature range	-40° C~ +85° C .

5.0 ELECTRICAL PERFORMANCE

Test Ref.	Item	Test Condition	Requirements
5.1	Examination of Product	Meets requirements of product drawing. No physical damage.	Specimens shall be investigated by 10x (or higher) microscope.
5.2	Contact Resistance	Mate connector with circuit of 20mV, 100mA Max. Measured from pin side to shaft side, deflection 2.70mm Working Height EIA 364-23	50 mΩ Max.(Initial)
5.3	Current Rating	Apply the rated current to connector, EIA 364-70	Temperature rise: 30°C Max.

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6.0 MECHANICAL PERFORMANCE

Test Ref.	Item	Test Condition	Requirements
6.1	Durability	Operation Speed: 10~20cycles/minute. Durability Cycles: 5000 Cycles EIA 364-09C	[Contact Resistance]: 50mΩMaximum,
6.2	Normal Force	Measure normal force at contact point, deflection 2.70mm Working Height EIA-364-04	[Normal force]: 80g MIN..
6.3	Vibration	Subject mated connectors to 10-500 Hz traversed in 1minutes at 1.52mm amplitude for 2 Hour each of 3 mutually perpendicular planes.98.1 m/s^2 EIA 364-28D	<1μs discontinuity
6.4	Mechanical Shock	Accelerate Velocity: 490m/ s ² (50G) Waveform: 11ms Half-sine shock Velocity Change: 3.4m/s No. of Drops: 3 drops each to normal and reversed directions of X,Y and Z axes, totally 18 drops, passing 1mA current during the test. EIA 364-27B	<1μs discontinuity
6.5	Fully compression	Compress connector to 2.35mm W.H. by hand for 10sec	[Appearance]: no damage

7.0 ENVIRONMENTAL PERFORMANCE

Test Ref.	Item	Test Condition	Requirements
7.1	Humidity	Mate connectors: expose to a temperature of 40±2°C with a relative humidity of 90~95% for 96hours Note: Remove surface moisture and air dry 48 hours prior to measurements. EIA 364-31B	[Appearance]: no damage [Contact Resistance]: 50 mΩ maximum
7.2	Low Temperature Exposure	48 hours at -40°C 1hours recovery time EIA 364-59	[Appearance]: no damage [Contact resistance]: 50 mΩ maximum
7.3	High Temperature Exposure	48 hours at +85°C Less than 25% relative humidity 1hours recovery time EIA 364-17B	[Appearance]: no damage [Contact resistance]: 50 mΩ maximum
7.4	Thermal Shock	Place free situation samples in chamber with 10 cycles, and one duration is -40°C/(0.5h)→ 25°C/(5minutes Max.) →85°C/(0.5h) →25°C/(5minutes Max.). EIA-364-32C	[Appearance]: no damage. [Contact Resistance]: 50 mΩ maximum

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7.5	Salt Spray Test	Duration: 48 hours exposure; Atmosphere:salt spray from a 5% solution. Temperature: 35 +1/-2°C EIA 364-26B	[Appearance]: no damage.
7.6	Solderability Test	Dip solder tails into the molten solder(held at 245±5°C for 3 ±0.5 sec. EIA 364-52	[Solder coverage]: 95% Min.
7.7	Resistance to reflow soldering heat	Place connector applicable P.C.B. footprint and float on solder bath at 250 +5/ -0°C Reference to following Table A and Fig.1. EIA 364-56	[Appearance]: no damage .

8.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage.

9.0 RECOMMENDED REFLOW PROFILE

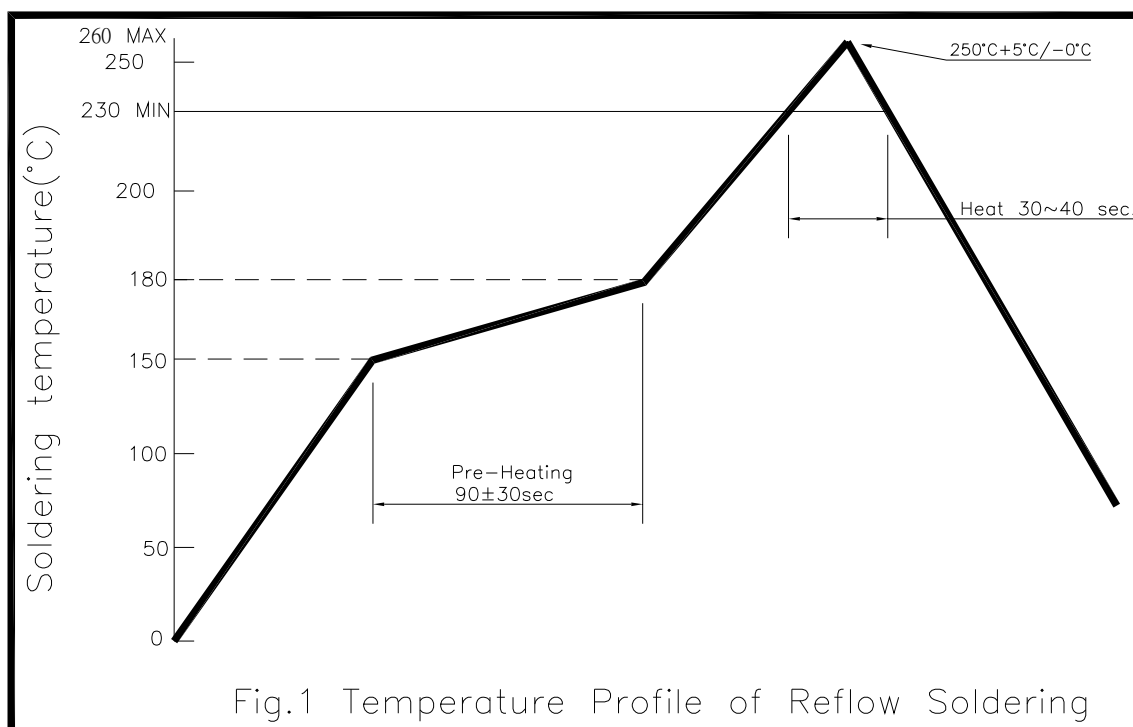


Fig.1

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PRODUCT SPECIFICATION

10.0 TEST GROUP


Test Group												
Test Items	Test Sequence											
	A	B	C	D	E	F	G	H	I	J	K	L
Examination of Product	1,5	1,7	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,3	1,3
Contact Resistance	2,4	2,6	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4		
Current Rating	3											
Durability		4										
Normal Force		3,5										
Vibration			3									
Mechanical Shock				3								
Fully compression					3							
Humidity						3						
Low Temperature Exposure							3					
High Temperature Exposure								3				
Thermal Shock									3			
Salt Spray Test										3		
Solderability Test											2	
Resistance to reflow soldering heat												2
Sample(Pcs)	3	3	3	3	3	3	3	3	3	3	3	3

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AdRON 文件制訂、修訂、廢止申請單

A

RD-PS-A-001-239

文件編號	PS-BL-0106	文件名稱	BTC3-A3-010000 Spec.		
申請部門	業務部	申請人	Tiara	日期	6/30/15
制訂單位	工程組	制訂人	Linda	日期	6/30/15
<input checked="" type="checkbox"/> 制訂 <input type="checkbox"/> 修訂 <input type="checkbox"/> 廢止原因說明	PDR-A15002f				
相關單位審查	Judy 7/1/15 Jef 7/1/15				
核准	 7/1/15				